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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 20-12-22

Lab ID :
Project Name : CP-2022-11-21-01
Agency : PACKAGE No-05 Development of Roads and Drains at Kasagattapura,
Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding
Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Customer's Reference : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout,
Veeranapalya, Arabic College Post, Bangalore-560045
Date of Receipt : EE(Project)/Ynk Zone/WO/020/2022-23
Sample Type : 21-11-22
Source of Sample : JSW 53 Grade
Reference to BIS codes : Guni Agrahara
IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 22-11-22
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.8N/mm ²	Not less than 27 N/mm ²
2	7 Days	38.6N/mm ²	Not less than 37 N/mm ²
3	28 Days	56.8N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT ON COARSE AGGREGATES

Date: 24-11-22

Lab ID : CP-2022-11-21-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 21-11-22
Sample Type : 40mm down size coarse aggregate
Source of Sample : Guni Agrahara
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 21-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID

CP-2022-11-21-01

Date: 24-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	-
4	Bulk Density(Loose) (Kg/l)	1.48	-
5	Bulk Density(Compacted) (Kg/l)	1.52	-
6	Water Absorption(%)	0.22	-

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TEST REPORT ON COARSE AGGREGATES

Date: 23-11-22

Lab ID : CP-2022-11-21-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 21-11-22
Sample Type/ Size : 20mm down size coarse aggregate
Source of Sample : Guni Agrahara
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 21-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2022-11-21-01

Date: 23-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 23-11-22

Lab ID

Project Name

Agency

Customer's Reference

Date of Receipt

Sample Type

Source of Sample

Reference to BIS codes

Date of test

Total weight taken

: CP-2022-11-21-01

: PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

: Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

: EE(Project)/Ynk Zone/WO/020/2022-23

: 21-11-22

: Fine Aggregate- M- Sand

: Guni Agrahara

: IS 383 : 2016 (Specification for Coarse and fine Aggregates)

IS: 2386 :1963(Part - 1, 3) RA2012

IS 2386 Part 1: Particle Size and Shape

IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

: 21-11-22

: 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	134	938	93.8	6.2	0-10	0-10	0-10	0-15
8	Pan	62	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2022-11-21-01

Date: 23-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.4	—
2	Specific Gravity	2.53	—
3	Material finer than 75 micron(%)	6.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Date: 22-11-22

Lab ID : CP-2022-11-21-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 21-11-22
Sample Type : A-One Gold
Source of Sample : Guni Agrahara
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test: : 21-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	A-One Gold	Fe550	8	0.39	563	645	20.0%	Satisfactory	Satisfactory
2	A-One Gold	Fe550	10	0.614	582	679	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/11/2022

Lab ID : CP-2022-11-22-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vadarahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrapura Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 22-11-22
Customer ID : Cement Concrete Pavement-Mavallipura
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CL5
Date of test : 28/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Mavallipura	M30	21/11/2022	28/11/2022	150.19 X 150.57 X 149.59	22614	8.296	517.8	22.9	23.4
2	Cement Concrete Pavement-Mavallipura	M30	21/11/2022	28/11/2022	151.84 X 149.25 X 150.07	22663	8.990	532.6	23.5	
3	Cement Concrete Pavement-Mavallipura	M30	21/11/2022	28/11/2022	149.09 X 149.42 X 149.01	22276	8.871	530.2	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/12/2022

Lab ID : CP-2022-11-22-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote,
Agency : Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency
Under Amrutha Nagarothana Grants
Customer's Reference : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabie College
Post, Bangalore-560045
Date of Receipt : EE(Project)/Ynk Zone/WO/020/2022-23
Customer ID : 22-11-22
Sample Type /Size : Cement Concrete Pavement-Mavallipura
Sample grade/Age : 150X150X150 mm
Reference to BIS codes : M30 / 28 Days Compressive Strength
Date of test : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Mavallipura	M30	21/11/2022	19/12/2022	150.29 X 150.53 X 150.20	22622	8.398	782.7	34.6	34.2
2	Cement Concrete Pavement-Mavallipura	M30	21/11/2022	19/12/2022	150.18 X 151.18 X 149.05	22704	8.726	774.2	34.1	
3	Cement Concrete Pavement-Mavallipura	M30	21/11/2022	19/12/2022	149.86 X 151.35 X 151.34	22681	8.932	766.6	33.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2022

Lab ID : CP-2022-11-23-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 23-11-22
Customer ID : Cement Concrete Pavement-Mavallipura
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 29/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Mavallipura	M30	22/11/2022	29/11/2022	151.62 X 150.21 X 151.82	22774	8.416	582.7	25.6	25.5
2	Cement Concrete Pavement-Mavallipura	M30	22/11/2022	29/11/2022	151.84 X 151.69 X 151.48	23032	8.510	601.1	26.1	
3	Cement Concrete Pavement-Mavallipura	M30	22/11/2022	29/11/2022	151.34 X 150.42 X 150.75	22764	8.197	566.7	24.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/12/2022

Lab ID : CP-2022-11-23-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 23-11-22
Customer ID : Cement Concrete Pavement-Mavallipura
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Mavallipura	M30	22/11/2022	20/12/2022	149.03 X 150.73 X 151.64	22463	8.435	751.7	33.5	33.2
2	Cement Concrete Pavement-Mavallipura	M30	22/11/2022	20/12/2022	151.19 X 151.98 X 151.48	22977	9.003	751.7	32.7	
3	Cement Concrete Pavement-Mavallipura	M30	22/11/2022	20/12/2022	151.44 X 151.26 X 151.08	22906	8.589	765.4	33.4	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2022

Lab ID : CP-2022-11-24-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 24-11-22
Customer ID : Cement Concrete Pavement-Kalathammanahalli
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 29/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Kalathammanahalli	M30	22/11/2022	29/11/2022	151.55 X 150.00 X 150.83	22733	8.398	536.5	23.6	24.9
2	Cement Concrete Pavement-Kalathammanahalli	M30	22/11/2022	29/11/2022	150.30 X 149.61 X 150.03	22487	8.673	557.7	24.8	
3	Cement Concrete Pavement-Kalathammanahalli	M30	22/11/2022	29/11/2022	150.11 X 150.96 X 149.41	22662	8.442	593.7	26.2	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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Certificate No.: TC-5548

Format No: CP/TF/01

Lab ID

Project Name

Agency

Customer's Reference

Date of Receipt

Customer ID

Sample Type /Size

Sample grade/Age

Reference to BIS codes

Date of test

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/12/2022

: CP-2022-11-24-01
: PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
: Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrapa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
: EE(Project)/Ynk Zone/WO/020/2022-23
: 24-11-22
: Cement Concrete Pavement-Kalathammanahalli
: 150X150X150 mm
: M30 / 28 Days Compressive Strength
: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 20/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Kalathammanahalli	M30	22/11/2022	20/12/2022	150.35 X 149.24 X 149.18	22439	8.828	709.1	31.6	32.1
2	Cement Concrete Pavement-Kalathammanahalli	M30	22/11/2022	20/12/2022	151.30 X 149.26 X 149.09	22582	8.415	720.4	31.9	
3	Cement Concrete Pavement-Kalathammanahalli	M30	22/11/2022	20/12/2022	149.48 X 151.07 X 150.33	22582	8.847	740.7	32.8	

* The results obtained are satisfactory as per standard requirements.

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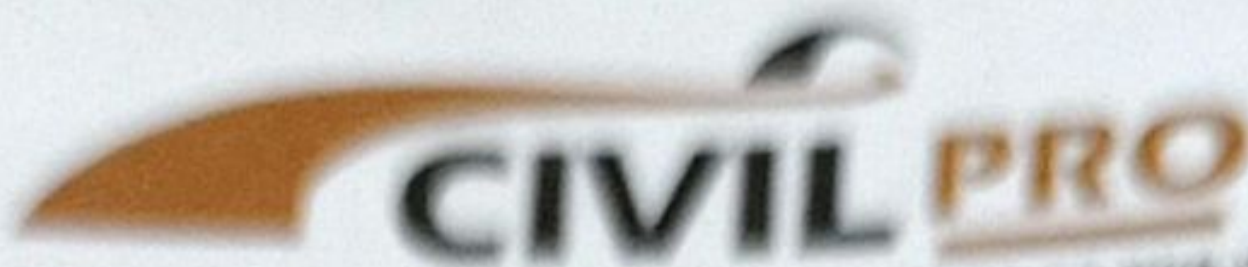
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Page 1/1
No of Report****



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8, 7TH MAIN KALLESWARA XXX, BANGALORE - 5

Certificate No.: CP/TF/01

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/11/2022

Lab ID : CP-2022-11-24-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Ramgattapuri, Vaidarhalli, Shivakore,
Kachihalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency
Agency : Under Amrutha Nagaradhara Grama
Customer's Reference : Sri. K. Gopireddy, No.03, 1st Cross, 1st Main, Ramchandrapur Layout, Veeranapalya, Arabie College
Post, Bangalore-560045
Date of Receipt : EE(Project)/Yrk Zone/WO/020/2022-23
24-11-22
Customer ID : Cement Concrete Pavement-Muddinapalya
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CL5

Date of test : 30/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Muddinapalya	M30	23/11/2022	30/11/2022	150.52 X 149.96 X 149.06	22572	8.626	530.5	23.5	25.1
2	Cement Concrete Pavement-Muddinapalya	M30	23/11/2022	30/11/2022	151.97 X 150.40 X 150.57	22857	9.080	578.3	25.3	
3	Cement Concrete Pavement-Muddinapalya	M30	23/11/2022	30/11/2022	151.26 X 149.46 X 150.90	22607	8.879	596.8	26.4	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/12/2022

Lab ID : CP-2022-11-24-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 24-11-22
Customer ID : Cement Concrete Pavement-Muddinapalya
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 21/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Muddinapalya	M30	23/11/2022	21/12/2022	151.72 X 150.56 X 151.86	22843	9.045	749.2	32.8	33.1
2	Cement Concrete Pavement-Muddinapalya	M30	23/11/2022	21/12/2022	150.22 X 151.02 X 151.97	22686	8.628	723.7	31.9	
3	Cement Concrete Pavement-Muddinapalya	M30	23/11/2022	21/12/2022	151.52 X 151.73 X 149.53	22989	8.471	793.1	34.5	

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
End of Report



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/11/2022

Lab ID : CP-2022-11-24-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 24-11-22
Customer ID : Drain Side Wall- Kempapura
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 30/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall- Kempapura	M20	23/11/2022	30/11/2022	150.37 X 151.93 X 149.68	22846	8.554	340.4	14.9	15.3
2	Drain Side Wall- Kempapura	M20	23/11/2022	30/11/2022	149.84 X 150.65 X 150.14	22573	8.532	345.4	15.3	
3	Drain Side Wall- Kempapura	M20	23/11/2022	30/11/2022	149.87 X 149.16 X 151.95	22355	8.460	353.2	15.8	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/12/2022

Lab ID : CP-2022-11-24-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 24-11-22
Customer ID : Drain Side Wall- Kempapura
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall- Kempapura	M20	23/11/2022	21/12/2022	151.72 X 150.56 X 151.86	22843	9.045	749.2	22.4	33.1
2	Drain Side Wall- Kempapura	M20	23/11/2022	21/12/2022	150.22 X 151.02 X 151.97	22686	8.628	723.7	21.9	
3	Drain Side Wall- Kempapura	M20	23/11/2022	21/12/2022	151.52 X 151.73 X 149.53	22989	8.471	793.1	23.8	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/12/2022

Lab ID :
Project Name : CP-2022-11-26-01
Agency : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Customer's Reference : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Date of Receipt : EE(Project)/Ynk Zone/WO/020/2022-23
Customer ID : 26-11-22
Sample Type /Size : Cement Concrete Pavement-kasagattapura
Sample grade/Age : 150X150X150 mm
Reference to BIS codes : M30 / 7 Days Compressive Strength
Date of test : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-kasagattapura	M30	25/11/2022	02/12/2022	150.86 X 149.91 X 150.69	22616	8.367	486.2	21.5	21.9
2	Cement Concrete Pavement-kasagattapura	M30	25/11/2022	02/12/2022	149.41 X 149.78 X 150.06	22379	8.104	499.1	22.3	
3	Cement Concrete Pavement-kasagattapura	M30	25/11/2022	02/12/2022	149.17 X 149.05 X 149.47	22234	8.813	486.9	21.9	

* The results obtained are satisfactory as per standard requirements.

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Signature
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/12/2022

Task ID

Project Name

Agency

Customer's Reference

Date of Receipt

Customer ID

Sample Type/Size

Sample grade/Age

Reference to ISX codes

Date of test

- 1. CP-2022-11-20-04
- 2. PAVNAGH No.03 Development of Roads and Drains at Kasagattapura, Vadarahalli, Shivakote, Kuchiballi Grama Panchayathi limits and surrounding Areas of Yelahanka Assembly Constituency Under Amara Nageswara Grama
- 3. S/S & Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrapur Layout, Veeranapalya, Arabie College Post, Bangalore-560043
- 4. BBT/Project/Yak Zone/WC/020/2022-23
- 5. 28/11/22
- 6. Cement Concrete Pavement-Kasagattapura
- 7. 150X150X150 mm
- 8. M30 / 28 Days Compressive Strength
- 9. IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.3

Table of Test										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive strength
					(mm)	(Sq. mm)	(kg)	(kN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement- Kasagattapura	M30	28/11/2022	28/12/2022	149.60 X	22180	8.458	733.3	32.4	32.5
					149.63 X					
					151.18					
2	Cement Concrete Pavement- Kasagattapura	M30	28/11/2022	28/12/2022	150.86 X	22508	8.417	718.0	31.9	
					149.20 X					
					150.92					
3	Cement Concrete Pavement- Kasagattapura	M30	28/11/2022	28/12/2022	150.99 X	22509	8.729	747.2	33.2	
					149.06 X					
					150.10					

* The results obtained are satisfactory as per standard requirements.

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